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NPIC/P&DS-148/64 12 August 1964

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MEMORANDUM FOR: Assistant for Administration

SUBJECT:

Monthly Activity Report for July, 1964.

GENERAL STAFF OCCURRENCES:

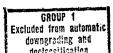
Summer vacations continue to cut heavily into available manpower. However, planned developmental activities are proceding at very nearly the pace anticipated.

was interviewed for the position of Deputy Assistant for Plans and Development, but it was determined that his experience was not relevant to the work of the Staff. DIA has nominated another candidate for the job and an interview is being arranged.

An apparent impasse was reached between NPIC and GSA regarding space on the first floor of Building 213 for the P&DS equipment test and evaluation room and maintenance area. The Eastman Kodak stereo projection viewer and the Multiple Image Correlator have been delivered and are being held in their shipping crates awaiting the availability of suitable space for evaluation. Shipment of several other significant prototype items of equipment is imminent and the evaluation of these will also have to await properly prepared space.

A patent application in favor of the Government was submitted by to protect a technique for making phase gratings, which they perfected in the Exploratory Developmental Laboratory. Their work in this area already has aroused the interest of several of our contractors and has the potential of producing significant savings to the Center in its developmental programs.

The NPIC Photo Interpreter Performance program is rapidly progressing. Arrangements have now been completed for obtaining the required aerial photography. It is expected that samples will be available shortly for the preliminary experimental evaluations. The target dates for completion of the first two phases (9" to 36" and 3' to 10' ground resolution) are now established as October 15 and December 15, 1964.



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The first meeting of the Image Quality Evaluation Program Committee was held at NPIC 13-15 July.

The Assistant for Plans and Developments participated extensively during the month in discussions relating to proposed collection programs.

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and	departed :	for his	s next	assignment	•							
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at 1	nis summer	place	in Per	nnsylvania.	Не е	xpects :	to re	eport	back	to di	aty	
in S	September.											

DEVELOPMENT BRANCH

During July the budgets for FY-65 and FY-66 and the Contract Procurement Schedule for FY-65 were compiled. At this time there are 63 specific development projects scheduled for contract in FY-65 at a cost of _______ The last items are scheduled to be under contract by March 1965. This schedule is intended to put the Center in a competitive position for additional funds at the end of the fiscal year if any are available.

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Work on new major development contracts was set into motion. Following the administrative settlement of contracts that was accomplished in June, monitors visited the corresponding facilities or met with company representatives in Washington to verify technical guidelines and initiate the work.

Some major equipment was delivered during the month. The Roll Film Rear-Projection Stereo Viewer developed by Eastman Kodak Company was delivered on 13 July, and the Stereo-Chip Comparator developed by OPTOmechanisms was delivered on 22 July.

Project status accounting records were brought up-to-date and considerable work was accomplished in the development of new procedures to provide timely status information on all projects.

Listed below are statistics relevant to branch operations during July:

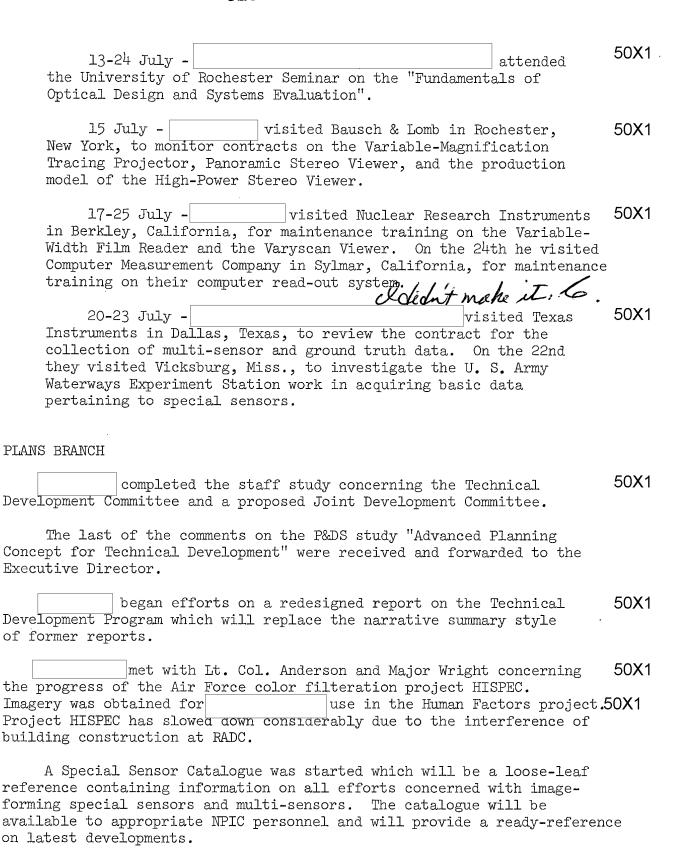
Project Status	Initiated	In Work	Completed	Cancelled
Major (more than 40 man hrs)	6	119	3	1
Minor (less than 40 man hrs)	3	13		0

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In Work O Completed O			
Proposal Status			
Received 2 In Work 18 Rejected 2 Accepted 0			
Project Approval Requests			
In Work 0 Completed 0			
Contract Status	Number	Dollar Value	
Pending Obligations Contracted this Months Contracted this FY-65 Completed this Month Current Total Contracts	5 0 0 0 72	imum and introduced and	50X1
Conferences for the month we 80 man hours. Following are list Branch personnel during the month	ed the trips und	-	
l July - vi Air Force photography and se under the Human Factors - Pe Photo Interpreter Performanc	lect domestic ta rkin Elmer Contr		50X1
7 July - Plainview, New York, to moni Transfer Device and four Hig	tor progress on		50X1
8-10 July - Target Recognition" conferen		attended the "Automatic e University.	50X1
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After coordination with TID and informally forwarded to Eastman Kodak a proposed format for titling film from	50X1
the 115-A System. The proposal is considered feasible, and a formal request will be forwarded to who is the contract monitor with EK.	50X1
visited Itek/Alexandria to discuss further the Itek/NPIC project for the exploitation of side-looking radar materials. The Itek facility was examined to determine its ability to provide support.	50X1
visited Texas Instruments, Inc., Dallas, Texas, where they reviewed the progress being made on the project on sequential multi-sensor day-night target coverage. Considerable information also was gathered on other activities that might be of interest to NPIC. They then visited the U. S. Army Corps. of Engineers Waterways Experiment Station, Vicksburg, Miss., where they became familiar with projects concerning the determination of soil composition and soil trafficability through the use of remote sensors. The results could have considerable importance in determining the values of radar, IR, gamma radiation, etc., to the P. I.	50X1
Activities concerning the coordination of new systems have increased so significantly that it is difficult for a branch of only two people to keep up with the work.	
EXPLORATORY DEVELOPMENT LABORATORY BRANCH	
The Image Quality Evaluation Program began during the month. This is a continuation of the Drell Committee and is sponsored by NPIC.	

The Image Quality Evaluation Program began during the month. This is a continuation of the Drell Committee and is sponsored by NPIC. The current committee is composed of eleven representatives from industry and Government. The initial meetings were held at NPIC 13-15 July and were chaired by This is the first of a series of such meetings, in a year's continuing investigation which has as its goal the objective measurement of image quality from mission materials.

A breadboard demonstration of the Virtual Image Viewer was set up in the laboratory. This viewer allows direct viewing of an image while eliminating the need for a conventional screen. The breadboard will serve to introduce the operating principles to those not familiar with them and should improve understanding of such non-standard optical systems.

Work continued on the adjacency effect study. Although was away on annual leave most of the month he completed the draft of his preliminary report and began considering the design and fabrication

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of the requisite experimental equipment. has designed several pieces of equipment for use in this study such as those needed for basic immersion and controlled-agitation implementation.	50X1
completed his report on the heating problem associated with the Richardson Viewers. A visitor to the center this month, Captain Louis Monti, USAF, expressed an interest in this work as his detachment in Japan has experienced the same problem with their viewers.	50X1
continued their work on photographic phase gratings. Investigations were made to determine the fundamental physical properties of these gratings, to measure controlling parameters, and to predict grating behavior under coherent illumination. A suggestion was submitted to the Awards Committee which proposed that the laboratory produce crossed phase gratings for use in the Virtual Image Viewer. The breadboard model previously described uses an experimental version of such a grating. A report is currently in preparation which will culminate these studies. It is expected that this report will be issued by the end of August or the middle of September.	50X1
NPIC this month for consultation with He was given excellent briefings by PAG and TID on matters relating to their work. Technical subjects pertinent to the EDL Branch efforts were discussed from which two tasks emerged and were assigned to Technical Operations under the current contract they hold with P&DS. One of these was to prepare a critique of edge-trace methods for ascertaining system transfer functions. The other was to consider the formulation of a mathematical description peculiar to asymmetrical spread functions to aid in understanding the effects such functions have on the over-all system transfer function. Both of these tasks are in support of the Image Quality Evaluation Program and will be highly useful to the committee members.	50X1 50X1
spent the period 27-30 July in Rochester, New York, attending a course in microdensitometry at Eastman Kodak, under PAR 225 of the AL-14 contract.	50X1
joined the Plans and Development staff this month and was assigned to the EDL Branch. is a specialist in atmospherics and can be expected to contribute greatly	50X1 50X1
to the branch!s progress in optical and photographic investigations. recently returned from where he received a PhD	50X1
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Assistant/for Plans and Development	
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